

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Patent Application of:) Docket No.: 4240-103
Applicant:	LEE, Sang Yup, et al.) Examiner: Not Yet Assigned
Application No.:	Unassigned) Art Unit: Not Yet Assigned
Date Filed:	March 2, 2004) Customer No.: 23448
Title:	COMPOSITION FOR PROTECTING PROTEINS DEGRADATION COMPRISING SMALL HEAT SHOCK PROTEINS (sHSPs) AND METHOD OF TWO- DIMENSIONAL GEL ELECTROPHORESIS USING THE sHSPs	<div>23448</div>
Cross-Reference to Related Application:	This application claims priority under 35 USC § 119 of Korean Patent Application No. 10-2003-0062756 filed September 8, 2003	

EXPRESS MAIL CERTIFICATE

I hereby certify that I am mailing the attached documents to the Commissioner for Patents on the date specified, in an envelope addressed to Mail Stop Patent Application,, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and Express Mailed under the provisions of 37 CFR 1.10.



Candace White

March 2, 2004

Date

EV160595239US

Express Mail Label Number

INFORMATION DISCLOSURE STATEMENT

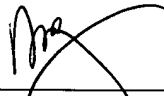
Mail Stop Patent Application
Commissioner of Patents and Trademarks
P.O. Box 1450
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Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
- ☐ c. Attached is our check no. _____ in the amount of \$_____ in payment of the fee under 37 C.F.R. §1.17(p). Please credit or debit Deposit Account No. _____ as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check no. _____ in the amount of \$180.00 in payment of the petition fee under 37 C.F.R. §1.17(i)(1). Please credit or debit Deposit Account No. _____ as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
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- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

Respectfully submitted,



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FORM PTO-1449 US Dept. of Commerce Patent and Trademark Office		ATTORNEY DOCKET NO. 4240-103		SERIAL NO. Unassigned	
INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)		APPLICANT LEE, Yang Sup			
		FILING DATE March 2, 2004		GROUP Unassigned	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	6,554,991					
	AB	2002/157954					
	AC	2002/133300					
	AD	6,416,644					
	AE	6,398,932					
	AF	2001/032786					
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	AK	6,123,821					
	AL	5,993,627					
	AM	WO98/59092					
	AN	WO02/25259					
	AO	WO02/90966					
	AP	WO01/79250					

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

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EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

* All the foreign patents and publications that are not written in English language are accompanied by their respective English abstracts, which constitute concise explanation of relevance of the non-English patents and publications that satisfy the requirements of 37 C.F.R. §1.98(a)(3)(i), according to MPEP 609 III A(3).

FORM PTO-1449 US Dept. of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	ATTORNEY DOCKET NO.		SERIAL NO.
	4240-103		Not Yet Assigned
	APPLICANT		
	LEE, Sang Yup		
	FILING DATE		GROUP
	March 2, 2004		Not Yet Assigned

OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)		
	AQ	Kitagawa, et al., "Escherichia coli small heat shock proteins.....", Eur. J. Biochem., 269, 2907-1917, 2002.
	AR	Lee, et al., "A small heat shock protein stably binds....", EMBO J., 16:659-671, 1997.
	AS	Studer, et al., "Chaperone Activity and Homo-Hetero-oligomer...", J. Biol. Chem., 275:37212-37218, 2000.
	AT	Horowitz, "a-Crystallin can function as a molecular chaperone", Proc. Natl. Acad. Sci., USA, 89:10449-53, 1992.
	AU	Ehrensperger, et al., "Stabalization of Proteins and Peptides...", Anal. Biochem., 259: 218-225, 1998.
	AV	Hochstrasser, et al., "Methods for Increasing the Resolution...", Anal. Biochem., 173:424-435, 1988.
	AW	Han, et al., "Proteome Analysis of Metabolically...", J. Bacteriol., 183:301-308, 2001.
	AX	Bradford, "A Rapid and Sensitive Method for the Quantitation...", Anal. Biochem. 72:248-254, 1976.
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